

## **Bay-Delta Plan Biological Goals Scientific Advisory Panel Biographies**

### **Cliff Dahm, Ph.D. (Chair)**

Dr. Clifford Dahm is an expert in aquatic ecology, biogeochemistry, and freshwater ecosystems, and he is professor emeritus at the University of New Mexico (UNM). As a professor in the Department of Biology at UNM, he served as head of the interdisciplinary Hydrogeoecology Research Group. He was a program director at the National Science Foundation (1994-1996) and principal investigator for the Sevilleta Long-Term Ecological Research (LTER) Program (2002-2003). Additionally, he served as Lead Scientist for the CALFED and Delta Science Program from 2008-2012 and again for the Delta Science Program from 2015-2017. Dr. Dahm emphasizes using interdisciplinary approaches to understand aquatic ecosystems with his expertise in ecosystems ecology, restoration ecology, biogeochemistry, microbial ecology, hydrology, and climatology.

### **Greg Ruggerone, Ph.D.**

Dr. Greg Ruggerone has investigated population dynamics, ecology, and management of Pacific salmon in Alaska and the Pacific Northwest since 1979. He was Project Leader of the Alaska Salmon Program, University of Washington, from 1985-1993, and he continues to supervise graduate student research in Alaska. Most of his research involves factors that affect growth, age at maturation, and survival of salmon in freshwater and marine habitats, including habitat and environmental conditions and interactions among species of salmon ([www.researchgate.net/profile/Gregory\\_Ruggerone](http://www.researchgate.net/profile/Gregory_Ruggerone)). For the past 14 years, he has evaluated management of salmon fisheries in Russia, Alaska, British Columbia and California for sustainability, including interactions between hatchery and wild salmon. He served as the fish ecologist on the Secretary of Interior review of dam removal on the Klamath River. He is past-Chair of the Columbia River Independent Scientific Advisory Board and member of the Independent Scientific Review Panel. He has contributed to independent scientific reviews of the draft Bay Delta Conservation Plan, draft Biological Opinion for the California WaterFix Project, Yolo Bypass

restoration, and life cycle models of Pacific salmon in the Central Valley, Columbia River, and Klamath River.

### **Charles Simenstad**

Charles (“Si”) Simenstad is an Emeritus Research Professor in the University of Washington’s School of Aquatic and Fishery Science, where he coordinates the Wetland Ecosystem Team. Prof. Simenstad is an estuarine and coastal marine ecologist who has studied the organization and function of estuarine and coastal marine ecosystems throughout Puget Sound, Washington, Oregon and California coasts, and Alaska for over forty-five years. Much of this research has focused on the functional role of estuarine and coastal ecosystems to support juvenile Pacific salmon and other fish and wildlife, the associated ecological processes and community dynamics that are responsible for enhancing their production and life history diversity, and whether restoration of estuarine ecosystems can contribute to the recovery of depressed salmon populations. He has contributed to or evaluated comprehensive ecosystem restoration programs, such as the Puget Sound Nearshore Ecosystem Restoration Project, and presently serves as Co-Editor-in-Chief of the scientific journal *Estuaries & Coasts*.

### **Peter Moyle, Ph.D.**

Dr. Peter Moyle is Distinguished Professor Emeritus in the Department of Wildlife, Fish and Conservation Biology and associate director of the Center for Watershed Sciences, UC Davis. He is author or co-author of more than 250 peer-reviewed publications and 10 books, including being co-author on a forthcoming book on environmental flows (Wiley). He has served on numerous advisory bodies, as well as serving as an expert witness in trials and hearings dealing with fish. His research interests include conservation and ecology of native fishes of the San Francisco Estuary and of California in general; effects of introduced aquatic organisms (including their role in novel ecosystems); use of floodplains by fish; and reconciliation ecology. He has long-term research projects in Suisun Marsh and Putah Creek with shorter-term projects in the north Delta and other localities around northern California.

**Josh Korman, Ph.D.**

Dr. Josh Korman, the president of Ecometric Research Inc., is a fisheries ecologist and modeler with 28 years of experience studying the effects of dams on fish populations, effects of harvest on exploited populations, and in developing novel approaches to the analysis of ecological data. He also has considerable experience in Adaptive Management. He is an adjunct professor at the University of British Columbia Institute of Oceans and Fisheries, a reviewer for more than 15 scientific journals, and has served on a number of scientific review panels.

**Wim Kimmerer, Ph.D.**

Dr. Wim Kimmerer is a Research Professor at the newly formed Estuary & Ocean Science Center, Romberg Tiburon Campus of the San Francisco State University. For over 25 years he and his associates have conducted studies in the San Francisco estuary on effects of freshwater and tidal flow on habitat, abundance, and movement of plankton and fish; the influence of introduced species; and population dynamics, reproduction, growth, and mortality of fish and foodweb organisms. He has participated in modeling studies on topics, such as delta smelt population dynamics and hydrodynamics. He has served on numerous review or advisory boards, such as for the Bay Delta Conservation Plan, 2008 Biological Opinion for delta smelt, Klamath River dam removal project, Delta Vision Task Force, Delta Risk Management Strategy, Delta Native Fishes Recovery Team and the State Water Resources Control Board workshops on flow.